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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/082,858	10/19/2001	Frederic Lagarrigue	GB 000146	4952
24737 75	590 04/19/2005		EXAMINER	
PHILIPS INTELLECTUAL PROPERTY & STANDARDS			RAMAKRISHNAIAH, MELUR	
P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510		ART UNIT	PAPER NUMBER	
			2643	
		DATE MAILED: 04/19/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/082,858	LAGARRIGUE, FREDERIC			
		Examiner	Art Unit			
		Melur Ramakrishnaiah	2643			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠	Responsive to communication(s) filed on 19	October 2001.				
2a)□	This action is FINAL . 2b)⊠ Th	is action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims					
5)□ 6)⊠ 7)⊠	 4) Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-4,8 and 9 is/are rejected. 7) Claim(s) 5-7 and 10 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Applicati	on Papers					
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment	` '	»□····-				
2) 🔲 Notice 3) 🔯 Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 · No(s)/Mail Date <u>4-15-2005</u> .	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa				

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Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-4 are rejected under 35 U.S.C 102(b) rejected under 35 U.S.C 102(b) as being anticipated by Ray (US PAT: 5,257,286).

Regarding claim 1, Ray discloses a method of receiving a signal propagated over a signal channel comprising a receiving and demodulating the signal, equalizing the demodulated signal in a first operation to counter a first type of distortion and in a second operation equalizing the signal from the first operation to counter a second type of distortion (col. 1, line 41 – col. 2, line 23).

Regarding claims 2-4, Ray further teaches the following: equalization in the first operation is to counter distortion introduced by the signal channel, the equalization in the first operation is to counter inter symbol inference, equalization in the second operation is to counter distortions introduced by transmitting and receiving elements (col. 2, line 57 – col. 3, line 60).

3. Claim 8 is rejected under 35 U.S.C 102(b) as being anticipated by Karabinis (US PAT: 4,415,872).

Regarding claim 8, Karabinis discloses a receiver comprising means for receiving a signal propagated over a signal channel, means for demodulating the received signal (implicit), a first equalizing stage (for example 1-1, fig. 2) coupled to the demodulating

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means for countering a first type of distortion and a second equalizing stage (for example 1-2, fig. 1) coupled to the first equalizing stage for countering a second distortion (figs. 1-2, col. 2, line 34 – col. 6, line 20).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Karabinis in view of Serizawa et al. (US PAT: 5,274,670, hereinafter Serizawa).

Regarding claim 9, Karabinis does not teach the following: first equalizing stage includes means for storing a first training sequence and the second equalizing stage include means for storing a second training sequence.

However, Serizawa discloses method of equalization in digital mobile communication with improved tracking ability which teaches the following: means for storing training sequences (fig. 10, col. 8 lines 29-31).

Thus, it would have been obvious to one of ordinary skill in the art at the time invention was made to modify Karabinis' system to provide for the following: first equalizing stage includes means for storing a first training sequence and the second equalizing stage include means for storing a second training sequence as this arrangement would facilitate to adapt the equalizer for communication channel conditions as is well known in the art.

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6. Claims 5-7, 10, are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melur Ramakrishnaiah whose telephone number is (703) 305-1461. The examiner can normally be reached on M-F 6:30-4:00; every other F Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curtis Kuntz can be reached on (703)305-4708. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Melur Ramakrishnaiah Primary Examiner Art Unit 2643

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